

Union Oil Company of California  
P.O. Box 1074  
Coalinga, CA 93210

DIVISION OF OIL AND GAS  
RECEIVED



MAY 28 1982

WOODLAND, CALIFORNIA

May 25, 1982

RE: Water Disposal Well "Galli" #1  
Union Island Gas Field

Mr. John C. Sullivan, Deputy Supervisor  
Division of Oil and Gas  
117 W. Main Street, Suite No. 11  
Woodland, California 95695

Dear Mr. Sullivan:

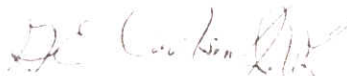
In response to your letter of May 21, 1982, we are supplying the information, as requested, for exemption of our "Galli" #1 disposal well from the provisions of the Underground Injection Control program.

The "Galli" #1 well disposes of produced water (from the Union Island Gas Field) into the Mokelumne River formation (5310-5720'). The well is located approximately 6 miles north of the town of Tracy and 11 miles southwest of Stockton on property owned by Galli Farms (L. Galli). The Mokelumne formation contains a brackish water (10,106 mg/l TDS) that is not suitable for drinking and is therefore not used as a source of drinking water (according to the DWR). This formation lacks any unusual geologic features (geology was supplied with our letter of May 19, 1977 when the well was converted for disposal.)

Drinking water wells in the area of the Union Island Gas Field are between 1000' and 1500' deep (according to the DWR), therefore, our injection interval is in excess of twice their depth. These wells yield water at rates as high as 2000-3000 gal/min. (according to the DWR). Delta and river water serve as alternate sources of water in this area.

Attached is a copy of the analysis of the Mokelumne formation water.

Very truly yours,

  
G.E. Carlson, Agent

JWL:jmm

Attachment

NE' SON LABORATORIE  
AGRICULTURAL CHEMISTS AND CONSULTANTS  
1145 WEST FREMONT STREET  
STOCKTON, CALIF. 95203

12-100

July 28,

DIVISION OF OIL AND GAS  
RECEIVED

MAY 28 1977

WOODLAND, CALIFORNIA

Union Oil

P. O. Box 547

Isleton, California

THE FOLLOWING ARE THE RESULTS OF ANALYSIS OF A SAMPLE OR SAMPLES AS RECEIVED FROM YOU BY THIS LABORATORY:

NAME OF MATERIAL

Water Samples

*Formation Water*

RECEIVED

7-21-77

*From Galli #1  
Hickman Sand*

BILL G. SPRADLIN

AUG 2 1977

Carbonate (CO <sub>3</sub> )	ppm	None
bicarbonate (HCO <sub>3</sub> )	ppm	305
Chloride (Cl)	ppm	5920
Sulfate (SO <sub>4</sub> )	ppm	9
Nitrate (NO <sub>3</sub> )	ppm	< 1
Calcium (Ca)	ppm	196
Magnesium (Mg)	ppm	106
Sodium (Na)	ppm	3570
Percent Sodium (%)		69
Total Dissolved Salts	ppm	10106
Electrical Conductivity (mmhos/cm)		21.4

7.8

A. E. ADDICURA

AUG 24 1977

This sample is very unsatisfactory for irrigation purposes, primarily due to the extremely high chloride, sodium, and total salt levels.

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BY